Hwm-General Electric
#1 Burlington
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DEPARTMENT OF
WATER, AIR AND
WASTE MANAGEMENT

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GENERAL ELECTRIC

MEDIUM VOLTAGE SWITCHGEAR BUSINESS SECTION
GENERAL ELECTRIC COMPANY • P.O. BOX 488 • BURLINGTON, IOWA 52601 • (319) 753-8400

April 16, 1984

Barbara Cook
Water, Air, & Waste Management
Henry Wallace Bldg.
900 E. Grand
Des Moines, IA 50319

Re: Closure Plans and Costs

Barbara Cook,

Enclosed are closure plans for the General Electric operations in Burlington, Iowa. You will find a closure plan for the waste storage area at each of the two locations and also closure plans for separate processes within each building. A summary of the costs is as follows:

Bldg. 1	IAD005272703
Waste Storage Area	$7,820
Total Process Closures	$78,055

Bldg. 2 & 3	IAD000678037
Waste Storage Area	$300
Total Process Closures	$1,570

If you have any questions please write or call me.

Sincerely,

Glenn Soyer

Glenn Soyer
(319) 753-8500

Encl: C-15, C-12, C-13
C-14, C-17, C-18
C-19, C-21, C-22
C-23, C-25

R00323938
RCRA RECORDS CENTER

BURLINGTON PLANT OPERATION	SUBJECT: CLOSURE PLAN - HAZARDOUS WASTE STORAGE AREA
PROCEDURE RCRA	TAB: C NO. ME-C-15

BLDG. 1

CLOSURE PLAN - HAZARDOUS WASTE STORAGE AREA

I. The following generic procedure will be adhered to for closure of the Hazaroud Waste Storage area.

1) All contaminant pans (26) will be rinsed out and the rinsed solutions put into drums and identified.

2) Shipping manifest will be issued. All drums will be sent to approved permitted landfill for proper disposal.

3) All pans will be scrapped.

4) Provide for certification of closure.

II. Maximum Inventory

Waste Treatment Sludge	35 Cu. Ft. Sacks - 8
Paint Sludge	55 Gal. Drums - 20
Degreasing Fluid	55 Gal. Drums - 20
Spent Solvents	55 Gal. Drums - 30

Cost for removal drums $7,820. Total 104-55 gal. drums. Full drums are shipped out as soon as the quantity of 32 is reached. (Truck Load)

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Glenn Soyer	Safety & Envr. Engineer	3/19/84	7/15/83	1 of 1

CLOSURE PLAN - WASTE TREATMENT PLANT

I. The following generic procedure will be adhered to for closure of either an individual Waste Treatment Process (partial closure) or for the total Waste Treatment Facility.

1) Process all upstream influents. (Final volume of wastes).

2) Rinse feed piping with water. (Cost = 575)

3) Disconnect, remove, and properly dispose of all source plumbing. (Cost = 1150)

4) Treat all solutions in process supply holding tanks. (Chemicals on Hand).
Thoroughly rinse tanks with water and treat same.

5) Remove all sludge from filter press and dispose of per applicable IDEQ/EPA regulation. (Cost to Dispose = $500)

6) Uncover the two underground storage tanks. Remove tanks. Check soil for any contamination. Remove any contaminated soil and dispose of per applicable IDEQ/EPA regulation. Backfill excavation with clean fill.

7) Dismantle facility and dispose of all equipment according to corporate policy.

8) Provide for certification of closure.

II. Maximum Inventory

Chrome Waste	800 Gals.
Cyanide Concentrate	300 Gals.
Cyanide Rinse Water	800 Gals.
Acid Concentrate	1400 Gals.
Alkaline Concentrate	2000 Gals.
Acid/Alkaline Rinse Water	4000 Gals.
Solid Waste (To Storage)	55 Gals.

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III. Closure Schedule

None Planned

IV. Closure Costs

Note: - Since Step #I-7 is not necessary to complete the closure plan (e.g. All Facility Equipment is decontaminated prior to disposition of equipment by removal of all Hazardous Waste), no costs are included for this work.

1) Decontamination

Cyanide Destruction Process	$1300	(100 Man Hrs. @ 13.00)
Chrome Reduction Process	351	(27 Man Hrs. @ 13.00)
PH Adjustment Process	351	(27 Man Hrs. @ 13.00)
Solids Removal Process	351	(27 Man Hrs. @ 13.00)
Misc.	2300	
Total	$4653	

2) Excavate tanks & backfill $5750

3) Certification $ Administrative Cost $1725

4) Contingency 25% $2990

Total Closure Cost - $15118

V. Post Closure

If in Step #1-6 no contamination is found then no post closure policy will apply. If contamination is found, ground water monitoring is to be implemented.

CLOSURE PLAN - SILVER BELKE

SILVER PLATING LINE - EXEMPT

I. The following generic procedure will be adhered to for closure of the Silver Belke after notifying waste treatment of closure plans.

1) Process all tanks solutions.
2) Thoroughly rinse tanks with water and treat same. Then remove tanks.
3) Disconnect, remove, and properly dispose of all plumbing from the tanks.
4) Dismantle exhaust hoods, scrubber, fans, walls, lights, rectifiers, robot lift and dispose of according to corporate policy.
5) Rinse floor, trench and sump pit thoroughly.
6) Remove sump pump.
7) Remove containment curbing, fill in trench and sump pit with concrete.
8) Provide for certification of closure.

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II. Maximum Inventory

1) Refer to Hazardous Material Control book.
2) All chemicals will be returned to the respective vendors.

III. Closure Costs

1) Misc. - $1000
2) Certification- $ 350

CLOSURE PLAN - HAND PLATING LINE (NEW)

I. The following generic procedure will be adhered to for closure of the Hand Plating Line after notifying waste treatment of closure plans.

1) Process all tank solutions.
2) Thoroughly rinse tanks with water and treat same.
3) Disconnect, remove, and properly dispose of all plumbing from tanks & pumps.
4) Dismantle hoods, scrubbers, fans and dispose of according to corporate policy.
5) Thoroughly rinse floor down.
6) Remove sump pumps, and gratings, rinse thorougly and dispose of according to corporate policy.
7) Fill in recessed floor with concrete.
8) Provide for certification of closure.

II. Maximum Inventory

1) Refer to Hazardous Material Control book.
2) All chemicals will be returned to respective vendors.

III. Closure Costs

1) Misc. $1000
2) Certification $ 350

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CLOSURE PLAN - ZINC BELKE

I. The following generic procedure will be adhered to for closure of the Zinc Belke after notifying waste treatment of closure plans.

1) Process all tank solutions.

2) Thoroughly rinse tanks with water and treat same. Then remove tanks.

3) Disconnect, remove, and properly dispose of all plumbing from the tanks.

4) Dismantle hoods, scrubber, robot lift, walls, lights, and rectifiers and dipose of according to corporate policy.

5) Rinse floor and trench thoroughly.

6) Remove containment curbing, fill in trench with concrete.

7) Provide for certification of closure.

II. Maximum Inventory

1) Refer to Hazardous Material Control book.

2) All chemicals will be returned to the respective vendors.

III. Closure Costs

1) Misc. 1000

2) Certification 350

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CLOSURE PLAN - AUTO SPOT PLATING

I. The following generic procedure will be adhered to for closure of the Auto Spot Plating after notifying waste treatment of closure plans.

1) Process all tank solutions.
2) Thoroughly rinse tanks & pans with water and treat same.
3) Disconnect, remove and properly dispose of all plumbing from tanks & pumps.
4) Dismantle scrubber, fans, pipe and dispose of according to corporate policy.
5) Thoroughly rinse machine, fixtures, pumps and treat same. Dispose of according to corporate policy.
6) Provide for certification of closure.

II. Maximum Inventory

1) Refer to Hazardous Material Control book.
2) All chemicals will be returned to the respective vendors.

III. Closure Costs

1) Certification $350

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BURLINGTON PLANT OPERATION	SUBJECT: CLOSURE PLAN - FLUID BED
PROCEDURE RCRA	TAB: C NO. ME-C-19

TOI EXEMPTION

CLOSURE PLAN - FLUID BED

The following procedures will be conducted when partial or total closure of the Fluid Bed Process is required.

I. Cleaning Line Closure

A. Notify appropriate waste treatment personnel prior to pumping out chemicals.

B. Scrape and rinse all tanks with water when empty.

C. Pump adequate water through the pumps & pipes to assure good rinsing.

D. Turn off air, water and electricity to the process.

E. Dismantle pumps, piping and storage tanks & dispose of per corporate policy.

F. Return unused inventory to vendor.

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II. Ovens & Conveyor Closure

A. Clean & vacuum ovens and flight bars.

B. Disconnect air, electricity, gas and hydraulics from the system.

C. Dismantle facility and dispose of equipment per corporate policy.

III. Powder Tank

A. Remove all powder and properly dispose of in closed top cardboard barrels.

B. Vacuum out the tank.

C. Remove tank and dispose of per company policy.

IV. Provide for certification of closure.

V. Closure Costs

A. Dismantle and remove ovens, conveyors, and tank	$17,250
B. Repair floor & fill pits	2,300
C. Certification	1,150
Total	$20,700

BURLINGTON PLANT OPERATION	SUBJECT: CLOSURE PLAN - ELECTRODEPOSITION PAINT SYSTEM
PROCEDURE RCRA	TAB: C NO. MEC - 21

The following Generic Procedure will be adhered to for closure of the New Cathodic Paint System.

I. DISMANTLE FACILITY

A. Pre-Cleaning Equipment

(1) Drain and rinse holding tanks, pumps and piping.

(a) Alkaline and Phosphate Process Waste to Sanitary Sewer which delivers to West Burlington Waste Treatment.

(b) Chromate Process Waste to GE Waste Treatment.

B. Water Refining Equipment

(1) Drain and Rinse Charcoal and Deionizing Tanks, Pumps and Piping.

(a) Process Waste to GE Waste Treatment System.

C. Ultrafilter and Anolyte Systems and Post Rinse.

(1) Drain and rinse with De-Ionized Water, Tanks, Pumps and Piping.

(a) Process Waste to Underground Concrete Sump #4A.

(b) Perform flocculation process to settle out all dissolved solids.

(c) Check Ph, and decant all clear liquid to Sanitary Sewer which delivers to West Burlington Waste Treatment.

(d) Remove all paint sludge from sump to 55 gallon drums, seal, label and dispose to approved landfill.

D. Electrocoat and Paint Transfer Tanks, and Weir

(1) Drain mixed paint liquid from tanks.

(a) Pump/transfer to 55 gallon barrels, seal, label and dispose to approved landfill.

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(b) Rinse tanks, pumps and piping with deionized water, process waste to Underground Holding Sump #4A.

(c) Perform Flocculation Process to settle out all Dissolved Solids.

(d) Check Ph, and Decant all Clear Liquid to Sanitary Sewer which delivers to West Burlington Waste Treatment.

(e) Remove all Paint Sludge, from Sump to 55 Gallon Drums, Seal, Label and Dispose to approved Landfill.

E. Close Underground Concrete Holding Tanks

(1) Pump #1A Alkaline, #3A Iron Phosphate and Dispose to Sanitary Sewer which connects to West Burlington Treatment.

(2) Pump #2A Chromate to GE Waste Treatment.

(3) Pump #4A to Sanitary Sewer, West Burlington Treatment.

(4) Fill all Tanks with Sand.

(5) Replace Manhole Covers and Weld in Place, Water Tight.

(6) Seal Openings of all Buried Process Waste Piping.

F. Disconnect all Natural Gas, Propane, Water, Electric and Air from Process.

G. Dismantle Equipment in Building and Dispose of Per Company Policy.

H. Remove containment curbs and repair floor, fill in trenches.

I. Remove oven and chiller from Roof, Roof Oven Area, Repair Roof Openings.

II. PAINT INVENTORY

A. All Resin, Paste, Flow Agents returned to Vendor.

B. All Chemicals for Pretreatment returned to Vendor.

C. All Chemicals for Flocculation Process and Deionizing process returned to Vendor.

III. CLOSURE SCHEDULE UNKNOWN, ASSUME 2000.

IV. CLOSURE COSTS - APPROX. $37,052.71

V. PROVISIONS FOR CERTIFICATION OF CLOSURE.

W. K. BRYANT
SENIOR MANUFACTURING
ENGINEER

BURLINGTON PLANT OPERATION	SUBJECT: CLOSURE PLAN - FINAL PAINT
PROCEDURE RCRA	TAB: C NO. ME-C-22

FINISH PAINT BLDG. NO. 1

CLOSURE PLAN - FINAL FINISH BOOTH

I. The following generic procedure will be adhered to for closure of the Final Finish line after notifying Waste Treatment of closure plans.

1) Remove all Paint Filters and dispose in proper containers - (55 gal. drums with water).

2) Remove all Dust Filter and dispose.

3) Disconnect, remove, and properly dispose of all air lines and electrical wiring.

4) Dismantle lights, exhausts, exhaust fans and dispose of according to corporate policy.

5) Disassemble Paint Booth shell and doors and dispose of according to corporate policy.

6) Remove paint from floor and dispose of properly - (55 gal. DOT approved drums and label Hazardous Waste).

7) Provide for certification of closure.

II. Maximum Inventory

1) Refer to Hazardous Materials control book.

2) All paints and solvents will be returned to the respective vendors or disposed of properly.

III. Closure Costs

1) Paint disposal $435

2) Certification $350

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J. Hutchcroft/Soyer	Mfg. Eng'g	7/15/83	2/19/82	1 of 1